

McDonnell Boehnen Hulbert & Berghoff Law Offices

### Fax transmittal

Τo **Examiner Brian Sines**  Date October 1, 2003

Company United States Patent and Trademark

Office, Group Art Unit 1743

From Kevin E. Noonan

1-703-746-3981

Direct 312-913-2145

Phone

Email Noonan@mbhb.com

Pages.

C/M

with cover

Re

Fax

Patent Application Serial No. 09/989,582 Attorney Docket No. 95,1408-JJJ

MESSAGE: Please deliver to Examiner Sines as soon as possible.

Responsive to an informal telephone interview initiated by Examiner Sines, Applicants transmit herewith a copy of an Information Disclosure Statement and corresponding PTO Form 1449, previously submitted on April 23, 2002. Applicants understand that Examiner Sines has considered the references contained in the IDS, but that the IDS paper and accompanying 1449 form are missing from the file. Applicants respectfully ask the Examiner to initial the 1449 form for all references he considered, and send a copy to them, either with the Notice of Allowance or by separate facsimile to (312) 913-0002.

Certificate of Facsimile Transmission: The undersigned attorney hereby certifies by his signature below that the Information Disclosure Statement was sent by facsimile to the above identified facsimile number on Wednesday the 1st day of October 2003.

Respectfully submitted,

Kevin E. Noonan Reg. No. 35,303

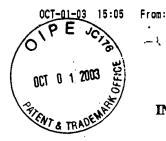
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 95,1408-JJJ)

In the	Application of:	)
	Mian et al.	)
Serial	No.: 09/989,582	) Examiner: )
Filing	Date: November 20, 2001	) Group Art Unit: 1641
For:	Devices and Methods for Using	)
	Centripetal Acceleration to Drive Fluid Movement in a Microfluidics	)

#### TRANSMITTAL LETTER

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

. In regard to the above identified application,

- 1. We are transmitting herewith the attached:
  - a) Information Disclosure Statement;
  - b) PTO Form 1449 and cited references;
  - c) Return postcard
- 2. With respect to fees:
  - a) No fees are required
  - b) Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490. A duplicate copy of this letter is enclosed.
- 3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1, are being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 on April 23, 2002.

Date:

23 April 2002

Respectfully submitted,

Kevin E. Noonan, Ph.D. Registration No. 35,303

McDonnell Bochnen Hulbert & Berghoff 300 South Wacker Drive Chicago, IL 60606 (312)913-0001 OCT O 1 2000 WHEN

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 95,1408-JJJ)

PATENT

In the Application of:	)	
Mian et al.	) ) .	
	) Examiner:	
Serial No.: 09/989,582	)	
	) Group Art Unit: 164	1
Filing Date: November 20, 2001	)	
	)	
For: Devices and Methods for Using	)	
Centripetal Acceleration to Drive Flui	id )	
Movement in a Microfluidics	)	

#### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56.

Copies of the references cited below are enclosed. These references are also listed on the enclosed PTO Form 1449.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

Applicants do not believe any fee is due with this submission. If this belief be in error and the Patent Office determines that the fee prescribed in the relevant portion of 37 C.F.R. Section 1.97 is applicable, the undersigned attorney by his signature hereby authorizes any such fee to be debited from

Deposit Account 13-2490.

If any of the references are incomplete the Examiner is cordially invited to contact the undersigned by telephone (312) 913-0001.

#### **US Patent Documents**

- 1. Salatiello et al., U.S. Patent No. 4,729,862, issued July 21, 1981
- 2. Ekins, U.S. Patent No. 4,381,291, issued April 26, 1983
- 3. Klose et al., U.S. Patent No. 4,515,889, issued May 7, 1985
- 4. Edelmann et al., U.S. Patent No. 4,676,952, issued June 30, 1987
- 5. Ekins, U.S. Patent No. 4,745,072, issued May 17, 1988
- 6. Kopf-Sill et al., U.S. Patent No. 5,160,702, issued November 3, 1992
- 7. Ekins, U.S. Patent No. 5,171,695. issued December 15, 1992
- 8. Burtis et al., U.S. Patent No. 5,173,262, issued December 22, 1992
- 9. Burtis et al., U.S. Patent No. 5,242,803, issued September 7, 1993
- 10. Burd, U.S. Patent No. 5,409,665, issued April 25, 1995
- 11. Buhl et al., U.S. Patent No. 5,413,732, issued May 9, 1995
- 12. Tabata et al., U.S. Patent No. 5,432,009, issued July 11, 1995
- 13. Schembri, U.S. Patent No. 5,472,603, issued December 5, 1995
- 14. White, U.S. Patent No. 5,006,749, issued April 9, 1991
- 15. Kroy et al., U.S. Patent No. 5,252,294, issued October 12, 1993
- 16 Wilding et al., U.S. Patent No. 5,304,487, issued April 19, 1994
- 17 Madou et al., U.S. Patent No. 5,368,704, issued November 29, 1994
- 18 Negersmith et al., U.S. Patent No. 3,679,367, issued July 25, 1972
- 19 Kazlauskas et al., U.S. Patent No. 4,940,527, issued July 10, 1990

- 20 Klose et al., U.S. Patent No. 4,515,889, issued May 7, 1985
- 21 Phillips et al. U.S. Patent No. 5,426,032, issued June 20, 1995
- 22 Guigan, U.S. Patent No. 4,154,793, issued May 15, 1979
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- 24 Braynin et al., U.S. Patent No. 5,122,284, issued June 16, 1992
- 25 Burd et al., U.S. Patent No. 5,304,348, issued April 19, 1994
- 26 Burd et al., U.S. Patent No. 5,457,053, issued October 10, 1995
- 27 Bernstein et al., U.S. Patent No. 5,478,750, issued December 26, 1995
- 28 Schembri et al., U.S Patent No. 5,591,643, issued January 7, 1997
- 29 Burd et al., U.S. Patent No. 5,518,930, issued May 21, 1996
- 30 Schembri et al., U.S. Patent No. 5,472,603, issued December 5, 1995
- 31 Schembri, U.S. Patent No. 5,693,233, issued December 2, 1997
- 32 Kelton et al., U.S. Patent No. 5,496,520, issued March 5, 1996
- 33 Burd, U.S. Patent No. 5,061,381, issued October 29, 1991
- 34 Braynin et al., U.S. Patent No. 5,242,606, issued September 7, 1993
- 35 Schembri, U.S. Patent No. 5,403,415, issued April 4, 1995
- 36 Schembri, U.S. Patent No. 5,173,193, issued December 22, 1992
- Chatterjee et al., U.S. Patent No. 5,275,016, issued January 4, 1994
- 38 Buhl et al., U.S. Patent No. 5,624,567, issued April 29, 1997
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- European Patent No. 417,305, published March 20, 1991
- European Patent No. 616,218, published September 21, 1994
- 46 European Patent No. 305,210, published December 8, 1993
- 47 European Patent No. 322,657, published July 5, 1989
- 48 German Patent No. 4,410,224, published September 28, 1995
- 49 European Patent No. 637367 B1, published December 10, 1997
- 50 International Patent No. WO 95/33986, published December 14, 1995

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- 51 Anderson, (1968), Anal. Biochem., 28: 545-562
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- 58 Burtis et al., (1974), Clin. Chem., 20: 932-941
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- 69 Haab et al., (1995), Anal. Chem., 67: 3253-3260
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- 71 Heineman, (1993), App. Biochem. Biotech., 41: 87-97
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- 76 Matsue et al., (1990), Rev. Polarogr., 36: 67
- 78 Poole et al., (January 1994), Anal. Chem., 66/1: 27A-37A
- 79 Reijenga et al., (1983), J. Chromatography, 260: 241-254
- 80 Renoe et al., (1974), Clain. Chem., 20/8:955-960
- 81 Rosenzweig et al., (1994), Anal. Chem., 66: 1771-1776
- 82 Schembri et al., (1992), Clin. Chem., 38/9: 1665-1670
- 83 Shoji & Esashi, (1992), Sensors and Actuators, B8: 205-208
- 84 Veider et al., (1995), Eurosensors IX, pp. 284-286
- 85 Wilding et al., (1994), Automat. Analyt. Tech., 40: 43-47

Date: 23 April 2002

Wilding et al., (1994), Clin. Chem., 40/1: 43-47 86

Respectfully submitted,
McDonnell Boehnen Hulbert & Berghoff

Kevin E. Noonan, Ph.D.

Reg. No. 35,303

OCT-01-03 15:07 From

Complete if Known Substitute for form 1449A/PTO Application No. 09/989.582 Filing Date: November 20, 2001 INFORMATION DISCLOSURE First Named Inventor Mian et al. STATEMENT BY APPLICANT Group Art Unit 1641 (use as many sheets as necessary) **Examiner Name** Attorney Docket No. 95,1408-JJJ Sheet

Examiner Initials*	Cite No.	Cite .	Cite	U.S. Patent	Document	A 11	Date of Publication of	Pages, Columns, Lines
Initials*	No. 1	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Figures Appea		
		4,729,862		Salatiello et al.	July 21, 1981			
		4,381,291		Ekins et al.	April 26, 1983			
		4,515,889		Klose et al.	May 7. 1985			
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		5,171,695		Ekins	December 15, 1992			
-		5,173,262		Burtis et al.	December 22, 1992			
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		5,409,665		Burd	. April 25, 1995			
		5,413,732		Buhl	May 9, 1995			
		5,432,009		Tabata	July 11, 1995			
		5,472,603		Schembri	December 5, 1995			
		5,006,749		White	April 9, 1991			
		5,252,294		Kroy	Ootober 12, 1993			
		5,304,487		Wilding	April 19, 1994	,		
		5,368,704		Madou	November 29, 1994			
		3,679,367		Negersmith	July 25, 1972			
		4,940,527		Kazlauskas et al.	July 10, 1990			
		4,515,889		Klose et al.	May 7. 1985			
		5,426,032		Phillips et al.	June 20, 1995	,		
		4,154,793		Guigan	May 15, 1979			

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Examiner	•	Date	
Signature		Considered	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to compete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

<sup>\*</sup>EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents, <sup>3</sup> Enter Office that issued the document, by the two-letter code (WPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>6</sup> Applicant is to place a check mark here if English translation is attached.

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Sheet

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known					
Application No.	09/989.582				
Filing Date:	November 20, 2001				
First Named Inventor	Mian et al.				
Group Art Unit	1641				
Examiner Name					
Attorney Docket No.	95,1408~JJJ				

Examiner	Cite No.	II S Datest	Dogument	U.S. PATENT DOCUMEN	1	2 2.1								
Examiner Initials*											Ma .	Kind Code <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		5,186,844		Burd	February 16, 1993									
		5,122,284		Braynin et al.	June 16, 1992									
		5,304,348		Burd et al.	April 19, 1994									
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		5,472,603		Schembri et al.	December 5, 1997	,								
\$ 10 A		5,693,233		Schembri	December 2, 1997									
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		6,403,416		Schembri	April 4, 1995									
		5,173,193		Schembri	December 22, 1992									
		5,275,016		Chatterjee et al.	January 4, 1994									
		5,624,597		Buhl et al.	April 29, 1997									
		5,599,411		Schembri	February 4, 1997									
		5,639,428		Cottingham	June 17, 1997									
		6,319,469		Mian et al.	November 20, 2001									

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Examiner	 Date	
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<sup>&</sup>quot;EXAMINER: Initial if reference considered, whether or not cliation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the Emperor must precede the serial number of the patent document. <sup>8</sup> Kind of document by the appropriate symbols so indicated on the document under WIPO Standard ST.10 if possible. <sup>8</sup> Applicant is to place a check mark here if English translation is attached.

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Substitute for form 1449A/PTO Complete if Known Application No. 09/989,582 Filing Date: November 20, 2001 INFORMATION DISCLOSURE First Named Inventor Mian et al. STATEMENT BY APPLICANT Group Art Unit 1641 (use as many sheets as necessary) Examiner Name Attorney Docket No. Sheet 6 95,1408-JJJ

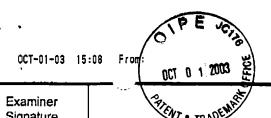
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>6</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Figures Appear	τ⁵
		wo	93/22053		Trustees of the University of PENN	11/11/93		
		wo	93/22058		Trustees of the University of PENN	11/11/93		
		EP	417,305	A1	Idemitsu Petrochemical Co. Ltd.	3/20/91		
		EΡ	616,218	A1	Hitachi, Ltd.	9/21/94		
		EP	305,210		Biotrack, Inc.	12/8/93		
		EP	322,657		Miles Inc.	7/5/89		
		GER	4,410,224		Gleich Anmelder	9/28/95		
		EP	637,367	B1	ABAXIS, Inc.	12/10/97		ļ.,
		wo	95/33986		ABAXIS, Inc.	12/14/95		

	OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>						
		Anderson, "Analytical Techniques for Cell Fractions" (1968), Anal. Biochem., 28: 545-562							
	1	Aoki et al., "Electrochemical Response at Microarray Electrodes in Flowing Streams and Determination of Catecholamines", (1990), Anal. Chem., 62: 2206-2210							
		Arquint et al., "Micromachined Analyzers on a Silicon Chip", (September 1994), Clinical Chemistry, Vol. 40, No. 9, pp. 1805-1809.							

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to compete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English translation is attached.



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				Application No.	09/989,582
	INFORMATION I	DISCLOSU	Filing Date:	November 20, 2001	
	STATEMENT BY		First Named inventor	Mian et al.	
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	(use as many sheet	s as necessary)	Examiner Name		
Sheet	4	of	6	Attorney Docket No.	95,1408-JJJ

		OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book. magazine. journal serial, symposium, catalog, etc.). date. page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Ballantine et al., "Surface Acoustic Wave", (June 1989), Anal. Chem., 61/11: pp. 704-715.	
		Bertrand et al., "A One-Step Determiniation of Serum 5'-nucleotidase using a centrifulgal Analyzer", (1982), Clinica Chimica Acta, 119: 275-284.	
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		Cho et al., " <u>Development of a Multichannel Electrochemical Centrifugal Analyzer</u> " (1982), Clin. Chem., 28/9: 1961-1965.	
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		Dessy, "Waveguides as Chemical Sensors", (October 1989), Anal. Chem., 61/19: 1079-1094.	
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		Esashi et al., " <u>Anodic Bonding for Integrated Capacitive Sensors</u> " (July 1992), Proc. Micro. Electro Mechanical Systems, 11: 43-48.	
		Foucault, "Countercurrent Chromatography" (1991), Anal. Chem., 63:	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English translation is attached.

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Examiner		·	TRADEMAN		

Examiner Signature	TRADEME	Date Considered

Substitute for form 1449A/PTO				Complet	Complete if Known		
				Application No.	09/989,582		
	INFORMATION D	ISCLOSU	Filing Date:	November 20, 2001			
	STATEMENT BY		First Named Inventor	Mian et al.			
	OTATEMENT DI	AI I LIOA	Group Art Unit	1641			
	(use as many sheets	as necessary)		Examiner Name			
Sheet	5	of	6	Attorney Docket No.	95,1408-JJJ		

		OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. 1 Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number publisher, city and/or country where published					
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS — NON PATENT LITERATURE DOCUMENTS							
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